

# VFC Dose Accountability Report Cards COVID Summary Reports

April 19<sup>th</sup> - 20<sup>th</sup>, 2023

Presenting To

30<sup>th</sup> Annual Arizona Immunization Conference

**Valentin Sostaric** | Immunizations Data Systems Chief  
Arizona Department of Health Services



ARIZONA DEPARTMENT  
OF HEALTH SERVICES

*Health and Wellness for all Arizonans*

Arizona  
STATE LINE

ADOPTS  
&  
JOURNEY



2007'S  
PROUDLY  
SUPPORTS  
ARIZONA



Background

Implementation

Results and Impact

Plot Twists

Operations Phase

# Arizona - ASIIS



1998 - State Mandate to report immunizations

Registry – Developed and hosted by STC

VFC, VFA, CHIP, State, Private & Pandemic Fund

Sites reporting:  $\approx 4,500$

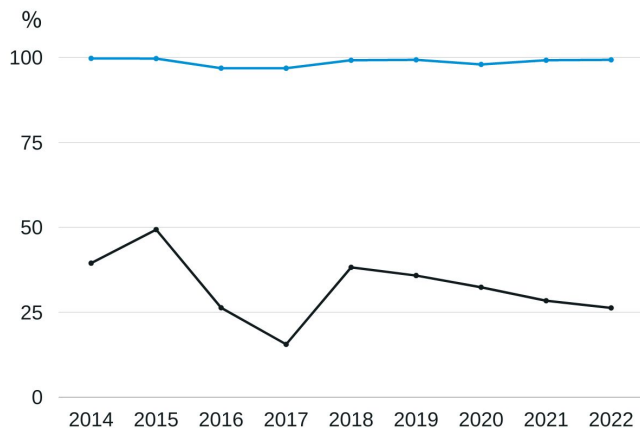
HL7 reporters:  $\approx 3,700$

VFC/VFA/COVID Providers:  $\approx 680/90/1060$

Public Vaccines shipped in 2022:  $\approx 3,200,000$

Public Vaccines Admin. in 2022:  $\approx 4,500,000$

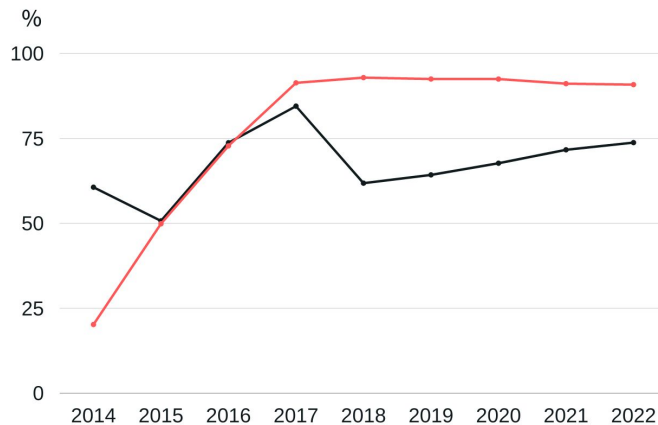
% OF PUBLIC DOSES REPORTED TO ASIIS



Manual Entry  
Decrement from  
inventory

Manual Entry  
to ASIIS






% OF PUBLIC DOSES REPORTED TO ASIIS



HL7  
Decrement  
from inventory

HL7

## Provider workflows prior to 2016

-  Not receiving the orders in ASIIS
-  Not reporting vaccinations at all
-  Not reporting wasted/expired
-  Writing off doses with non-acceptable reasons
-  Transferring vaccines without records in ASIIS



|                |
|----------------|
|                |
| Implementation |
|                |
|                |
|                |

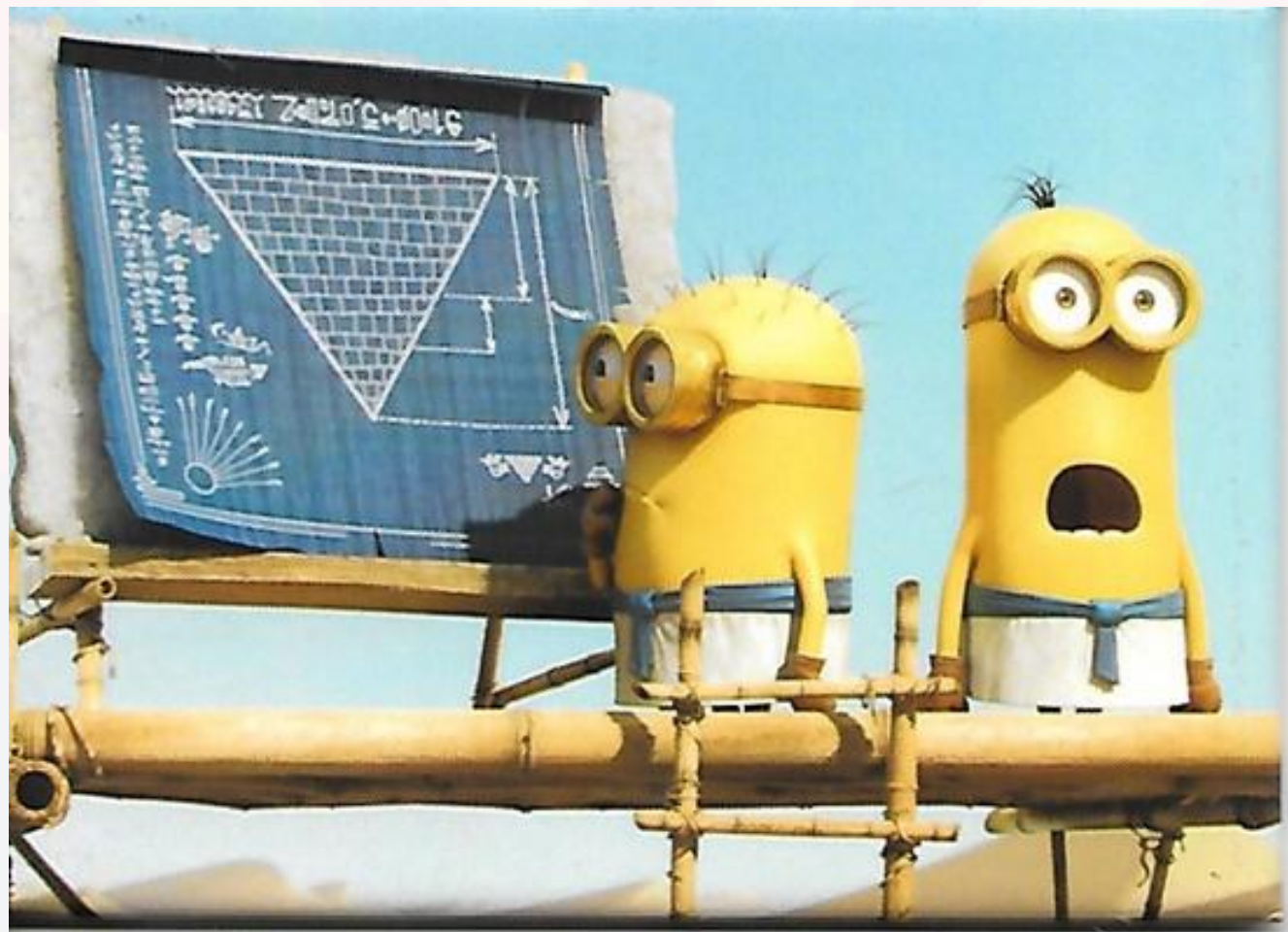
# Implementation











# TRAINING



November 2017

Regular Grammars

Program instructions  
all grammars  
on going

Need meet  
on Flow  
Charts?

Change  
check

Ability to track  
who is doing  
what with who

mostly based on current files

Letter to Docs  
- Program expect

Done

ONE?  
electronic folder  
for all PINS

How we built  
Provider  
buy-in?

Reconciliation  
- does it matter?  
- should we continue  
to force it?

1  
Write off letter  
to offender + doc  
- Ret from ASIS  
mail merge

Finalize DA  
Closeout Process  
- 150 ready \*  
- include Ret Cost w/  
Potential Costs

Dose  
Replacement  
Plan!

When to write  
off doses? \*  
Done all we can...

Acquist  
Reasonable  
effort = ? \*  
↓  
Write off Point

2  
Tryng for Cold Storage  
Still Pending  
- capital based on previous decision hasn't happened

Require  
New Staff tryng  
user permissions  
\* before  
Access

AIPO train  
net Steps  
Trello Cards

3  
Handling  
incidents  
- How to - AIPO

AIPO staff  
needs tools

Scripts 4  
helpdesk \*  
- w/ doc  
- w/ doc  
- w/ doc

Helpdesk assistance  
w/ DA.  
How do we get  
there?

Negative  
Doses  
Scenarios - what  
now?



## Dose Accountability Provider Report Card

Thursday, October 4, 2018

12:15:08 PM

### VFC Pin

Organization (IRMS) ID

Organization (IRMS) Name

Facility ID

Facility Name

| Vaccine Expiration Year | ASIS Inventory | Doses Used | Unaccounted Doses | Annual Utilization |
|-------------------------|----------------|------------|-------------------|--------------------|
| 2015                    | 1473           | 1473       | 0                 | 100.00%            |
| 2016                    | 1501           | 1501       | 0                 | 100.00%            |
| 2017                    | 1991           | 1984       | 7                 | 99.65%             |
| 2018                    | 1617           | 1615       | 2                 | 99.88%             |
| 2019                    | 1646           | 1095       | 551               | 66.52%             |
| 2020                    | 500            | 261        | 239               | 52.20%             |
| 2021                    | 10             | 0          | 10                | 0.00%              |
| Summary for VFC Pin     | 8738           | 7929       | 809               |                    |
| Overall Utilization     |                |            |                   | <b>74.04%</b>      |





# Dose Accountability Report Card

Friday, October 18, 2019  
11:17:37 PM

VFC Pin **0008**

Organization (IRMS) ID **340**

Vaccine Expiration Year

Organization (IRMS) Name

**2019 - CY**

Facility ID

Facility Name

## The Purpose:

The report cards show the usage of VFC doses that expired in the specific period: the number of doses administered to patients as recorded in ASIIS, the number of VFC doses that remain unlinked to a patient in ASIIS and the number and the percentage of wasted doses (expired, spoiled or wasted doses).

The 2019-Q3 Report Card includes VFC doses that expired in the period between July 1st, 2019 and September 30th, 2019.

The 2019-CY Report Card includes VFC doses that expired or will expire in 2019.

The 2020-CY Report Card includes VFC doses that expired or will expire in 2020.

## Actions for providers:

Providers should use the Report Card to determine if staff are correctly utilizing ASIIS for VFC dose documentation. They should make changes to their clinic workflow processes to ensure future data is submitted correctly and VFC vaccines are not wasted. If the reported overall wastage is higher than 5%, the provider should take immediate action as this indicates a need for change.

## Why:

Providers are responsible for using ASIIS to account for all doses of VFC vaccine shipped to them. When doses aren't linked to a VFC eligible patient in ASIIS, the AIPO looks at the data to determine vaccine wastage and may hold the provider responsible for replacing wasted VFC doses with privately purchased doses at the provider's expense. More information is provided at the end of this report. The restitution policy is outlined in the VFC Operations Guide online.

Description DTAP; SDV; 10-pack

NDC

Lot Number Code

Lot Number

Expiration Date

Doses  
Received

Doses  
Used

Doses  
Wasted

Doses  
Unaccounted

Unauthorized  
Adjustments

|                                    |         |            |              |              |            |            |          |
|------------------------------------|---------|------------|--------------|--------------|------------|------------|----------|
| 720225                             | N034559 | 12/5/2019  | 280          | 276          | 0          | 4          | 0        |
| 725749                             | N035941 | 12/18/2019 | 140          | 140          | 0          | 0          | 0        |
| VAR; SDV; 10-pack (24 lot numbers) |         |            | 3326         | 3117         | 203        | 6          | 0        |
| <b>Summary for VFC Pin 0008</b>    |         |            | <b>45137</b> | <b>43855</b> | <b>835</b> | <b>447</b> | <b>0</b> |
| <b>Overall Wastage:</b>            |         |            | <b>1.8%</b>  |              |            |            |          |

## Dose Accountability Report Card Footnotes

\*\*\*\*\*

The AIPO acknowledges that providers make good faith efforts to store and handle vaccines appropriately, as outlined in the VFC Operations Guide. However, failure to properly account for the VFC vaccines entrusted to you may result in dose for dose replacement, at your expense, via private vaccine purchase.

Providers with wastage meeting one or more restitution criteria will receive a detailed invoice of vaccines that must be replaced, and the VFC Dose for Dose Replacement Form. Providers will be required to replace vaccines within 60 days of notice and return the Form along with the shipping invoice of the privately purchased vaccines.

Providers who do not adhere to this policy and have an outstanding wastage invoice beyond the allowed 60 days will lose VFC vaccine ordering privileges until they replace the wasted vaccines and submit the required documentation.

For example, doses that are removed from the inventory using “matches physical inventory”, “correction of invalid entry” “administered but not linked to a patient”, “administered but chose not to be in the registry” (without supporting documentation), as selected in the Arizona State Immunization Information System (ASIS) for reconciling VFC vaccine doses, or any unauthorized transfer of vaccine, or wasting vaccine without providing the appropriate documentation, must be replaced on a dose for dose basis.

\*\*\*\*\*

\*Doses Received = The quantity of VFC vaccines received for a specific lot number

\*Doses Used = VFC doses administered, reported and linked to patients in ASIS

\*Doses Wasted = Expired, spoiled or wasted VFC doses

\*Doses Unaccounted = Unused VFC doses still present in the ASIS inventory as active or inactive lot numbers

\*Unauthorized Adjustments = VFC doses that are removed from the inventory using unauthorized categories and reasons in ASIS (“Matches physical inventory”, or “Administered but chose not to be in the registry” (without supporting documentation), etc.)

\*Overall wastage = The percentage of VFC wasted doses for the quarter

\*Vaccine restitution = The replacement of VFC vaccine doses that were lost due to provider negligence

\*\*\*\*\*





1

**November 26, 2018**

First report card sent out



2

**April 2019**

2019 Q1 and CY 2019 report cards sent

3

**Jan 2020**

2019 report cards with included Dose for Dose Vaccine Replacement Form (where applicable)

4

**October 2021**

Report card source change to Lot Number Summary Report



5

**September 2022**

Report card source changed to SQL after identified Lot Number Summary Report calculation errors





|                    |
|--------------------|
|                    |
|                    |
| Results and Impact |
|                    |
|                    |

# Results and Impact



To: VFC Providers and staff  
From: Dana Goodloe, Immunization Program Office Chief  
RE: Dose Accountability Report Cards and vaccine wastage  
Date: January 2020

Dear VFC Provider and staff,

I want to congratulate you and thank you for your efforts to ensure VFC doses are properly accounted for in ASIIS. Your year end Dose Accountability Report Card indicates your annual VFC vaccine wastage was less than five percent. That is amazing!

We know vaccine reporting can be burdensome and challenging. We know that sometimes things happen that make accurate reporting difficult. Despite challenges, you wasted less than 5% of the VFC doses that expired in 2019. That is impressive!

You should be proud of yourselves! You are among about 300 VFC providers in AZ who achieved vaccine wastage under 5%. I encourage you to keep up the great work and share your success with your colleagues and peers. We appreciate you and are grateful for you.

Sincerely,

A handwritten signature in black ink that reads 'Dana Goodloe'.

Dana Goodloe, Chief

Douglas A. Ducey | Governor Cara M. Christ, MD, MS | Director

150 North 18th Avenue, Suite 120, Phoenix, AZ 85007-3247 P | 602-364-3630 F | 602-364-3285 W | [azhealth.gov](http://azhealth.gov)  
[azdhs.gov](http://azdhs.gov)

*Health and Wellness for all Arizonans*



CONGRATULATIONS  
**ASIIS DOSE  
ACCOUNTABILITY  
CHAMPION**

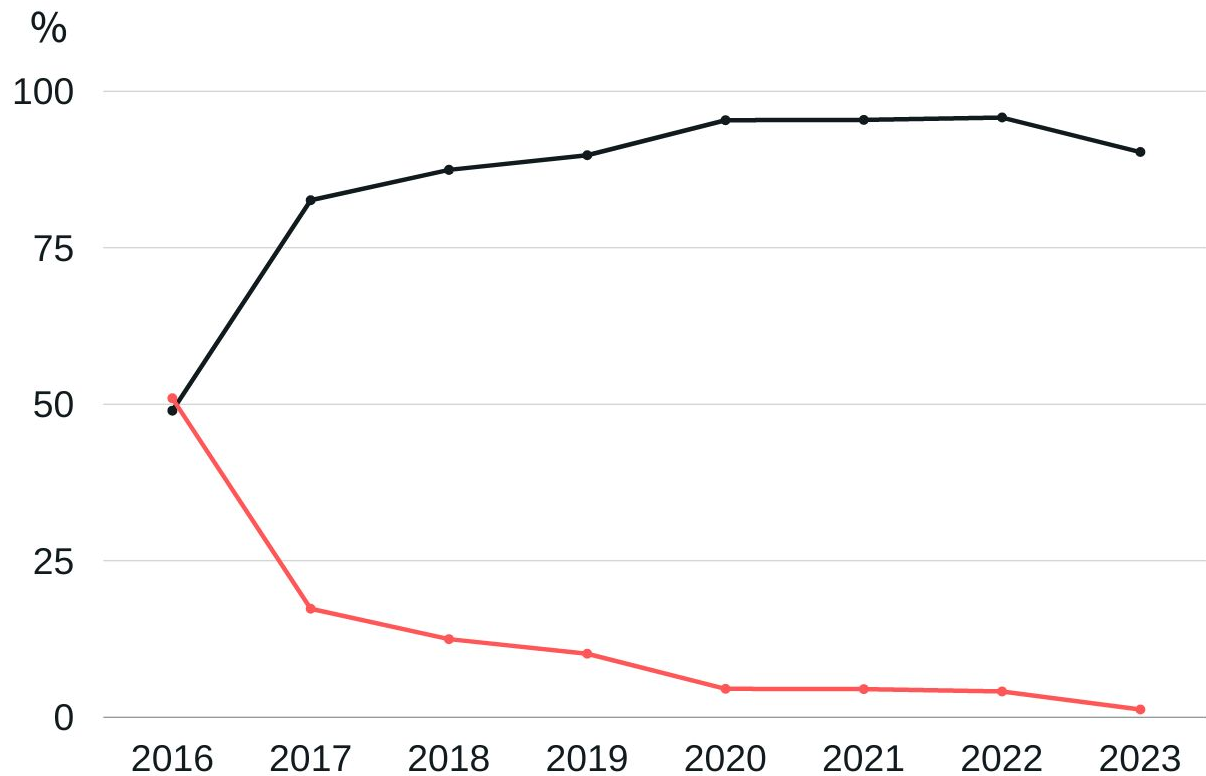
AZA 8462 - AMAZING ARIZONA VFC/VFA  
PROVIDER

**2019**

ARIZONA IMMUNIZATION PROGRAM OFFICE



## PUBLICLY SUPPLIED DOSES



CLEANUP

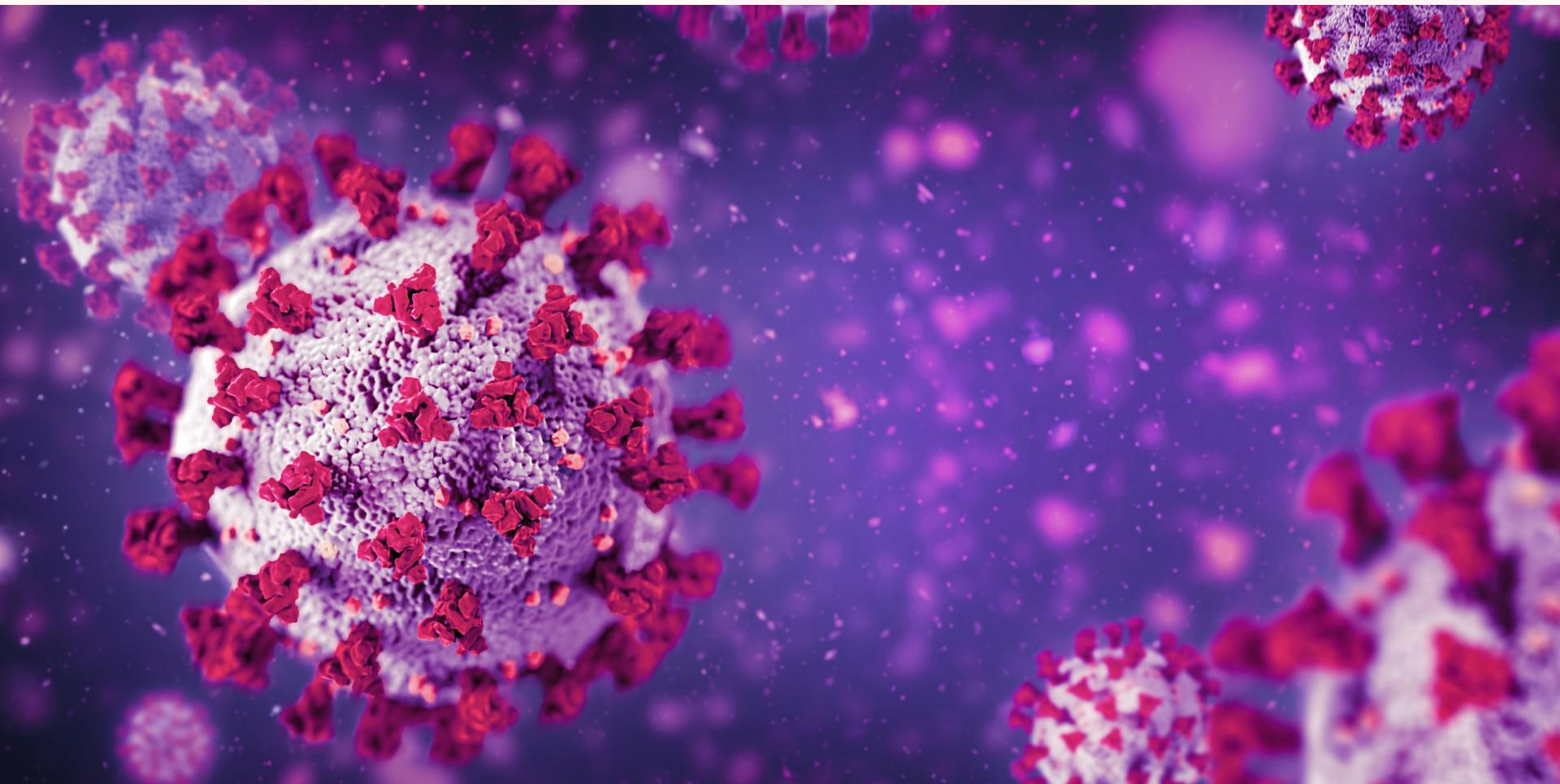
Utilization  
Rate

Wastage

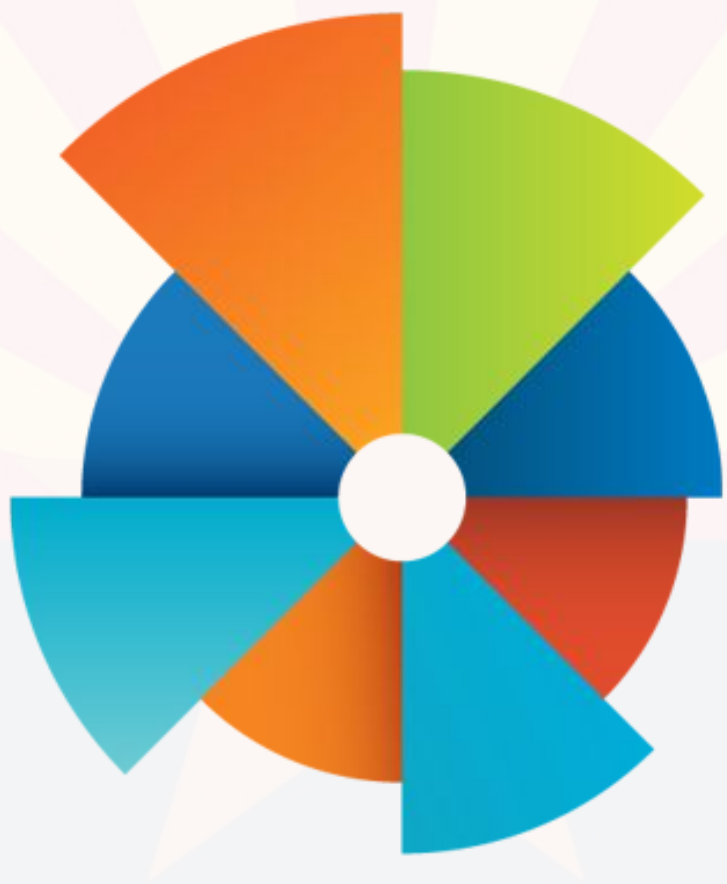


# Plot Twists









**VOMS**



Operations Phase

# Purpose

Dose Accountability Report Cards are a quarterly review of your VFC doses in ASIIS. If there are any discrepancies with your records or physical inventory, this provides an opportunity to identify and fix them.

|                          | Doses<br>Received | Doses<br>Used | Doses<br>Wasted | Doses<br>Unused | Unauthorized<br>Adjustments |
|--------------------------|-------------------|---------------|-----------------|-----------------|-----------------------------|
| Summary for VFC Pin 7777 | 19604             | 19175         | 364             | 65              | 0                           |
|                          |                   | 97.81%        | 1.86%           | 0.33%           | 0%                          |

Wasted and Unused: 1.86% + 0.33%

Year End Wastage: 2.2%

|                          | Doses<br>Received | Doses<br>Used | Doses<br>Wasted | Doses<br>Unused | Unauthorized<br>Adjustments |
|--------------------------|-------------------|---------------|-----------------|-----------------|-----------------------------|
| Summary for VFC Pin 7777 | 441               | 395           | 34              | 12              | 0                           |
|                          |                   | 89.57%        | 7.71%           | 2.72%           | 0%                          |

Wasted and Unused: 7.71% + 2.72%

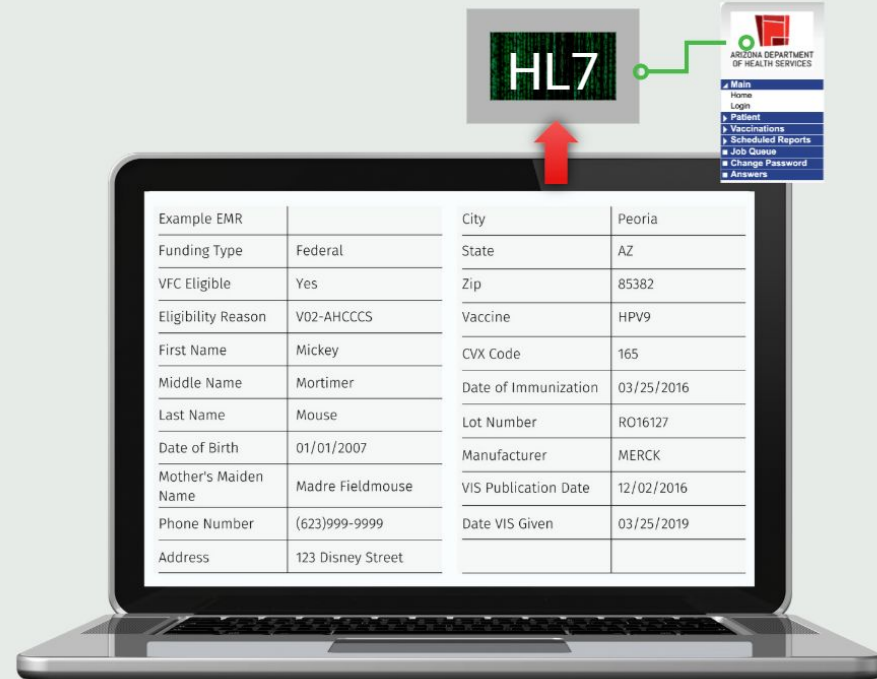
Potential Year End Wastage: 10.4%

# Why?

Providers are responsible to use ASIIS to account for all doses of VFC vaccine shipped to them.




# Enter Record in ASIIS



- Providers should use a report card to determine if staff are correctly utilizing ASIIS for dose documentation
- Providers may enter data directly into the ASIIS website or send EMR records to ASIIS over an HL7 interface

# Reading the Report Card

- ❑ The header shows the pin, and the date the report card was run
- ❑ Below the header is the body of the report card with the purpose, action for providers, and why.
- ❑ For each lot number you will see the description, expiration date, and usage numbers. As well as, Doses received, Doses wasted, Doses used, Doses Unused, and Unauthorized adjustments
- ❑ The summary shows category totals and percentages
- ❑ The wasted and unused combined shows what could be wasted at the end of the year



Dose Accountability  
Report Card

Monday, November 15, 2021  
9:22:25 AM

VFC Pin **7777**

Organization (IRMS) ID **99999**  
Organization (IRMS) Name **The Example Clinic**  
Facility ID **99999**  
Facility Name **The Example Clinic**

Vaccine Expiration  
**2021 - CY**

The Purpose:  
The report cards are a quarterly review of the accounting of VFC vaccinations in ASIIS. The report cards show the number of VFC doses administered to patients as recorded in ASIIS and can help the providers complete accurate reconciliation of the VFC inventory in ASIIS.

The 2021 CY Report Card includes VFC doses that are expiring in 2021.  
The 2022 CY Report Card includes VFC doses that are expiring in 2022.

Actions for providers:  
Providers should use the Report Card to determine if staff are correctly utilizing ASIIS for VFC dose documentation. The discrepancies between your records and ASIIS should be corrected.  
Also, if the potential year end wastage exceeds 5% the provider should take immediate action as this indicates a need for change to ensure data is submitted correctly and VFC vaccines are not wasted.

Why:  
Providers are responsible for using ASIIS to account for all doses of VFC vaccine shipped to them. When doses are not linked to a VFC eligible patient in ASIIS, which decrements the dose from the ASIIS inventory, the AIPO looks at the data to determine VFC vaccine wastage, including unused doses and may hold the provider responsible for replacing wasted VFC doses with privately purchased doses at the provider's expense. Each site can incur up to 5% wastage of doses that expire in that year; however, once 5% is exceeded, all wasted doses will need to be replaced by the site at its expense via private vaccine purchase. The restitution policy is outlined in the VFC Operations Guide online.

| Description | DTaP            |                |            |              |              |                          |
|-------------|-----------------|----------------|------------|--------------|--------------|--------------------------|
| Lot Number  | Expiration Date | Doses Received | Doses Used | Doses Wasted | Doses Unused | Unauthorized Adjustments |
| N0000000    | 5/23/2021       | 10             | 9          | 1            | 0            | 0                        |
| N0000000    | 7/17/2021       | 10             | 9          | 0            | 1            | 0                        |

Summary for VFC Pin 7777

44139534120

89.57%7.71%2.72%0%

Wasted and Unused:

7.71% + 2.72%

Potential Year End Wastage:

10.4%

# Reading the Report Card

Description DTaP

Lot Number

Expiration Date

Doses  
Received

Doses  
Used

Doses  
Wasted

Doses  
Unused

Unauthorized  
Adjustments

N0000000

4/15/2023

10

9

1

0

0

N0000000

8/15/2023

10

9

0

1

0

Summary for VFC Pin 7777

20

18

1

1

0

90%

5%

5%

0%

Wasted and Unused: 5.00% + 5.00%

Potential Year End Wastage: 10.0%



# Viewing the Lot Usage & Recall Report

## Lot Usage and Recall Report

Report Criteria

Report Date: April 15, 2023

Organization:

Vaccinating Facility: All

Date Range: All

District/Region: All

Vaccine:

Manufacturer:

Lot Number:

Lot Facility:

Funding Source:

| Last Name | First Name | Birthday | SIIS Patient ID | Vaccination Date | Organization | Vaccinating Facility | Dose Size |
|-----------|------------|----------|-----------------|------------------|--------------|----------------------|-----------|
|-----------|------------|----------|-----------------|------------------|--------------|----------------------|-----------|

Total Patients Selected: 0      Total Vaccinations Administered: 0

The Lot Usage and Recall Report will generate a list of patients who are already attached (decremented) from the lot.

The Report will display:

- the **search criteria used** (I.e. vaccine type, lot number, date range)
- the **patient's last name, first name, DOB, and SIIS Patient ID**
- the patient's **vaccination date**
- the total # of **vaccines administered** & the total # of **patients selected** based off search criteria

Tip: The report also shows **dose size**; if you are having dose accountability issues, look at the dose size and ensure each patient was administered the correct dose size.

# Report Setting

**Patient Detail Report**

*Run By*

☐ By Ownership

☐ By Service

☒ By Service (official vaccination record)

*Limit Report By*

☐ Vaccination Date Range From: mm/dd/yyyy Through: mm/dd/yyyy

☐ Birth Date Range From: mm/dd/yyyy Through: mm/dd/yyyy

- ❑ By **Ownership** shows patients with active status for your organization (patients your practice “owns”) and ALL vaccinations reported in the Vaccination Date Range for that patient (given outside your organization)
- ❑ By **Service** shows patients vaccinated in your facility and ALL changes for the given vaccines in the Vaccination Date Range (multiple entries for one vaccine, some decremented some not)
- ❑ By **Service (official vaccination record)** shows patients vaccinated in your facility and last version of the reported vaccines in the Vaccination Date Range

# Common errors preventing decrementing

- ❖ 5 or S | 2 or Z | 4 or A | G or 6 | 1 or I | 0 or O
- ❖ Creative receiving of multiple lot numbers in one shipment (/,-,.)  
Lot number 1/ Lot number 2
- ❖ Transposed numbers and letters
- ❖ Extra numbers or letters
- ❖ Writing NDC number instead of lot number
- ❖ Writing lot number from the vial or syringe instead of the box
- ❖ Writing lot number from the diluent instead of the vaccine box

# Common errors preventing decrementing

## Mfg. Code (MVX code)

- Unknown manufacturer code
- Incorrect manufacturer code

## Vaccine type

e.g. Lot number is for DTaP-HepB-IPV (Pediarix)  
yet it was reported as DTaP-IPV (Kinrix)

## VFC eligibility and Funding

- Unknown
- Blank
- Required to screen for eligibility prior to administering vaccine

## List of Vaccine Names, Best ASIIS Selection and CPT/CVX Codes



This list matches the vaccine name or codes in Arizona State Immunization Information System (ASIIS) with the brand name or other common names of the vaccines you use most often.

| Vaccine trade name or common name | Fund       | Best ASIIS Selection      | Age (Range)             | Dose   | Route | Manufacturer/ NDC Number   | CPT Code | CVX Code |
|-----------------------------------|------------|---------------------------|-------------------------|--------|-------|--|----------|----------|
| <b>Combination Vaccines</b>       |            |                           |                         |        |       |  |          |          |
| Vaxelis™                          | VFC        | DTaP,IPV,Hib,HepB         | 6 weeks - 4 years       | 0.5 ml | IM    | Merck – MSD<br>NDC: 63361-0243-10<br>(10 pack, 1 dose vial)<br>NDC: 63361-0243-15<br>(10 pack, 1 dose syringe) | 90697    | 146      |
| Quadracel™                        | VFC        | DTaP-IPV                  | 4 - 6 years             | 0.5 ml | IM    | Sanofi Pasteur – PMC<br>NDC: 49281-0562-10<br>(10 pack, 1 dose vial)   | 90696    | 130      |
| Kinrix®                           | VFC        | DTaP-IPV                  | 4 - 6 years             | 0.5 ml | IM    | GlaxoSmithKline – SKB<br>NDC: 58160-0812-52<br>(10 pack, 1 dose T-L syringe)                                   | 90696    | 130      |
| Pediarix®                         | VFC        | DTaP-HepB-IPV             | 6 weeks - 6 years       | 0.5 ml | IM    | GlaxoSmithKline – SKB<br>NDC: 58160-0811-52<br>(10 pack, 1 dose syringe)                                       | 90723    | 110      |
| Pentacel®                         | VFC        | DTaP-Hib-IPV              | 6 weeks - 4 years       | 0.5 ml | IM    | Sanofi Pasteur – PMC<br>NDC: 49281-0511-05<br>(5 pack, 1 dose vial)  | 90698    | 120      |
| Twinrix®                          | VFC<br>VFA | HepA-HepB                 | 18 years & older        | 1.0 ml | IM    | GlaxoSmithKline – SKB<br>NDC: 58160-0815-52<br>(10 pack, 1 dose T-L syringes; No needle)                       | 90636    | 104      |
| ProQuad®                          | VFC        | MMRV                      | 12 months -<br>12 years | 0.5 ml | SC    | Merck – MSD<br>NDC: 00006-4171-00<br>(10 pack, 1 dose vial)  | 90710    | 94       |
| Comvax (discontinued)             |            | Hib-Hep B                 | 6 weeks -<br>15 months  | 0.5 ml | IM    | Merck – MSD<br>NDC: 0006-4898-00   | 90748    | 51       |
| MenHibrix (discontinued)          |            | Meningococcal C/Y-HIB PRP | 6 weeks -<br>18 months  | 0.5 ml | IM    | GlaxoSmithKline – SKB<br>NDC: 58160-0801-11  | 90644    | 148      |

Immunizations/T Injections

Hx Imm Schedule Flu Schedule

Test, Test (F) 01/01/1981 (35 Y)

Generate Immunization Record

1. Create a new immunization record for the following fields:

represent for the selected patient below to generate a record on the disk.  
to your Public Health

a test patient for MR

Immunization Record

Immunization Details

**DTaP - VFC**

Vaccination Given in Past ☒ N ☐ Y

Visit date 2015-12-09 12 Child

Dose .5 milliliters

Dose Number 1

Lot Number 2M522 VFC

Location Left Deltoid

Route Intramuscular

Exp. Date 05/07/2017

VIS Given Date ☒ 01/26/2016

Comments

Status Administered

Reason

Given By Me

Given Date/Time 12/09/2015 03:22 PM

Manufacturer GlaxoSmithKline

VFC VFC Eligible - Medica...

Date on VIS 05/17/2007

☒ Decrement the dose

☒ Billable

☒ Counseling

OK Cancel

### Vaccination Detail Add

|                               |  |                                 |                         |                         |
|-------------------------------|--|---------------------------------|-------------------------|-------------------------|
| <b>Vaccine 1:</b>             | HPV9   |                                 |                         |                         |
| <b>Date Administered:</b>     | <input type="text" value="08/24/2019"/>  |                                 |                         |                         |
| <b>Historical:</b>            | <input type="radio"/> YES <input checked="" type="radio"/> NO                    |                                 |                         |                         |
| Provider Noted on Record:     | <input type="text"/>   |                                 |                         |                         |
| Lot Noted on Record:          | <input type="text"/>   |                                 |                         |                         |
| Manufacturer Noted on Record: | <input type="text"/>   |                                 |                         |                         |
| Manufacturer:                 | <input type="text" value="MERCK"/>   | <a href="#">Click to select</a> |                         |                         |
| <b>Lot Number:</b>            | <input type="text" value="HPV9LOT20"/>   |                                 |                         |                         |
| Lot Facility:                 | <input type="text" value="HAPPY TESTS"/>   |                                 |                         |                         |
| Funding Source:               | <input type="text" value="VFC"/>   |                                 |                         |                         |
| Facility:                     | <input type="text" value="HAPPY TESTS"/> <span>×</span> <span>▼</span>           |                                 |                         |                         |
| Vaccinator:                   | <input type="text" value="JILL TRAINING, JILL"/> <span>×</span> <span>▼</span>   |                                 |                         |                         |
| Anatomical Site:              | <input type="text" value="Select..."/> <span>▼</span>                            |                                 |                         |                         |
| Anatomical Route:             | <input type="text" value="Select..."/> <span>▼</span>                            |                                 |                         |                         |
| Dose Size:                    | <input type="text" value="Full"/> <span>▼</span>                                 |                                 |                         |                         |
| Volume (CC):                  | <input type="text"/>   |                                 |                         |                         |
| VFC Status:                   | AHCCCS<br><b>'VFC Status' will be ignored if lot number is not VFC eligible.</b> |                                 |                         |                         |
| District/Region:              | <input type="text"/>   |                                 |                         |                         |
| VIS Publications Dates:       | 1. <input type="text"/>  | 2. <input type="text"/>         | 3. <input type="text"/> | 4. <input type="text"/> |
| Date VIS Form Given:          | <input type="text" value="08/24/2019"/>  |                                 |                         |                         |
| Ordering Provider:            | <input type="text" value="Sel..."/> <span>▼</span>                               |                                 |                         |                         |
| Comments:                     | <input type="text"/>   |                                 |                         |                         |



ANY  
QUESTIONS  
?

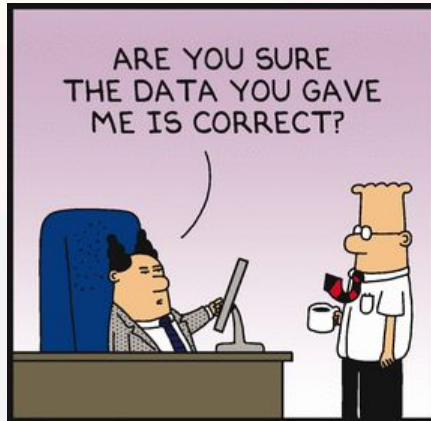
## Take-away moment

Write two things you can do or use  
from what you've just learned.

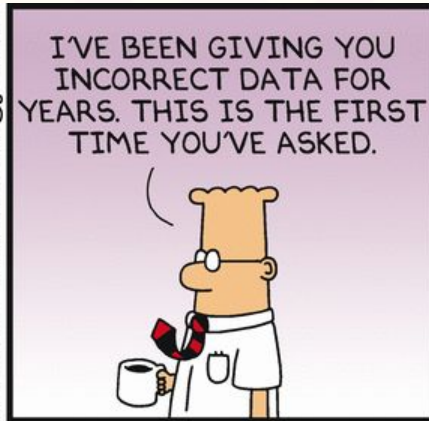
Circle the one you plan to do first.



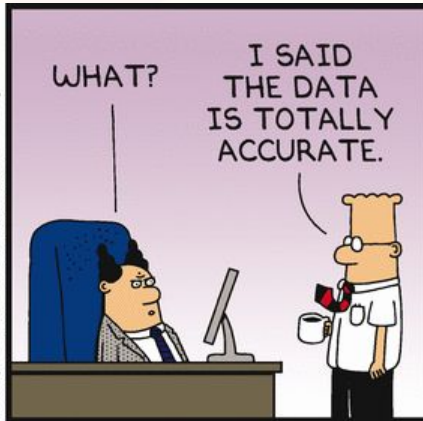
# Conclusion



Dilbert.com DilbertCartoonist@gmail.com



5-7-14 © 2014 Scott Adams, Inc./Dist. by Universal Uclick





**Valentin Sostaric** | Immunization Data Systems Chief  
Arizona Department of Health Services

# Continuing Education Credits 4/19/23



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